



Etter 4

B. J. .
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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For: Walter Etter : Examiner: Unassigned

Title: NOISE COMPENSATION METHODS : Attorney Docket: Etter 4

AND SYSTEMS FOR INCREASING

THE CLARITY OF VOICE COMMUNICATIONS

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ASSISTANT COMMISSIONER FOR PATENTS BOX NON-FEE AMENDMENT Washington, D.C. 20231

PRELIMINARY AMENDMENT

Dear Sir/Madam:

Kindly correct page 17, paragraph 51 as follows:

FIGS. 5-7 depict embodiments of the compressor gain unit 300 and limiter gain unit 500 shown in FIG. 3. More to the point, FIG. 5 depicts curves which may be used by the compressor and limiter gain units 300,500 to operate in an "output-bounded" mode while FIGS. 6-7 depict curves used by units 300,500 to operate in an "input-output-bounded" mode. Like the input-bounded mode illustrated in FIG. 4, the output-bounded mode shown in FIG. 5 comprises a curve ("AA") associated with a linear range a_4 and compression range a_5 and a curve ("BB") associated with a linear $[b_3]$ $\underline{b_4}$, compressor $[b_4]$ $\underline{b_5}$, and limiter range $[b_5]$ $\underline{b_6}$. Unlike the input-bounded mode, the output-bounded mode does not comprise a



linear-limiter curve (curve C shown in FIG. 4). This means that companders operating in accordance with the curves in FIG. 5 are always adapted to operate in a compression range which results in a low amount of noise compensation in high-level noise conditions.

These corrections were made to conform the specification to FIG. 5. No new matter has been added. A clean copy of paragraph 51 is attached at the end of this Amendment.

No fee is believed to be due. However, in the event of non-payment or improper payment of a required fee, the Commissioner is authorized to charge or to credit **Deposit** Account No. 501735 as required to correct the error.

Should there be any questions, please call the undersigned.

Respectfully submitted,

John E. Curtin, Reg. No. 37,602 Attorney for Applicant

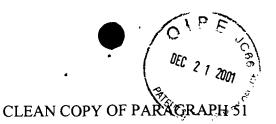
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FIGS. 5-7 depict embodiments of the compressor gain unit 300 and limiter gain unit 500 shown in FIG. 3. More to the point, FIG. 5 depicts curves which may be used by the compressor and limiter gain units 300,500 to operate in an "output-bounded" mode while FIGS. 6-7 depict curves used by units 300,500 to operate in an "input-output-bounded" mode. Like the input-bounded mode illustrated in FIG. 4, the output-bounded mode shown in FIG. 5 comprises a curve ("AA") associated with a linear range a4 and compression range a5 and a curve ("BB") associated with a linear b4, compressor b5, and limiter range b6. Unlike the input-bounded mode, the output-bounded mode does not comprise a linear-limiter curve (curve C shown in FIG. 4). This means that companders operating in accordance with the curves in FIG. 5 are always adapted to operate in a compression range which results in a low amount of noise compensation in high-level noise conditions.